CLAIMS

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- 1. A device for indicating clogging of the fuel filter of internal combustion engines, in particular diesel engines, the filter comprising an outer casing closed by a cover of amagnetic material, and a filter element which, together with the disc to which it is connected, defines two chambers for fuel entry and exit respectively, characterised by comprising a pressure sensor means sensing the difference between the entry and exit fuel pressure and housed inside the filter casing, and a means for generating a signal proportional to said pressure difference which is not mechanically connected to the pressure sensor means and is located outside the filter casing.
 - 2. An indicator device as claimed in claim 1, characterised in that the pressure sensor means comprises:
- an elastically deformable element which defines a variable volume inside the fuel entry or exit chamber; a conduit which connects said volume to the other chamber; and a magnet which, associated with the flexible element, moves to follow its elongation or contraction.
 - 3. An indicator device as claimed in claim 2, characterised in that said pressure sensor means is housed in the fuel entry chamber.
- 4. An indicator device as claimed in claim 2, characterised in that said elastically deformable element is fixed, by known means, to the filter cartridge connection disc.
 - 5. An indicator device as claimed in claim 2, characterised in that said flexible element is a bellows.

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- 6. An indicator device as claimed in claim 2, characterised in that said flexible element is a membrane.
- 7. An indicator device as claimed in claim 2, characterised in that said conduit is a through hole passing through the thickness of the filter cartridge connection disc, in correspondence with the flexible element.
- 8. An indicator device as claimed in claim 2, characterised in that said signal generating means comprise:

 a Hall sensor sensitive to the magnetic field of the magnet of the pressure sensor means, and a processor for processing the voltage signal generated by the Hall sensor.
- 9. An indicator device as claimed in claim 7, characterised in that the signal generating means is positioned on the filter cover.